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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/394,019A

DATE: 10/15/2001

TIME: 13:28:04

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\10152001\I394019A.raw

3 <110> APPLICANT: Oncoimmunin, Inc.
4 Komoriya, Akira
5 Packard, Beverly
7 <120> TITLE OF INVENTION: COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN
BIOLOGICAL SAMPLES
8 AND METHODS OF USE THEREOF
10 <130> FILE REFERENCE: 300-903820US
12 <140> CURRENT APPLICATION NUMBER: US 09/394,019A
13 <141> CURRENT FILING DATE: 1999-09-10
15 <150> PRIOR APPLICATION NUMBER: PCT/US98/00300
16 <151> PRIOR FILING DATE: 1998-02-20
18 <150> PRIOR APPLICATION NUMBER: US 08/802,981
19 <151> PRIOR FILING DATE: 1997-02-20
21 <160> NUMBER OF SEQ ID NOS: 260
23 <170> SOFTWARE: PatentIn version 3.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 12
27 <212> TYPE: PRT
C--> 28 <213> ORGANISM: Artificial
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31 <223> OTHER INFORMATION: Synthetic peptide substrate
33 <220> FEATURE:
34 <221> NAME/KEY: MOD_RES
35 <222> LOCATION: (3)..(3)
36 <223> OTHER INFORMATION: X is Aib or Pro
39 <400> SEQUENCE: 1
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42 1 5 10
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 14
46 <212> TYPE: PRT
C--> 47 <213> ORGANISM: Artificial
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Synthetic peptide substrate
52 <220> FEATURE:
W--> 53 <221> NAME/KEY: Artificial
54 <222> LOCATION: (1)..(14)
55 <223> OTHER INFORMATION: Artificial protease substrate
58 <400> SEQUENCE: 2
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61 1 5 10
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 14
65 <212> TYPE: PRT
C--> 66 <213> ORGANISM: Artificial
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Synthetic peptide substrate
71 <220> FEATURE:

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72 <221> NAME/KEY: MOD_RES
73 <222> LOCATION: (3)..(3)
74 <223> OTHER INFORMATION: X is Aib or Pro
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80 1 5 10
82 <210> SEQ ID NO: 4
83 <211> LENGTH: 14
84 <212> TYPE: PRT
C--> 85 <213> ORGANISM: Artificial
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Synthetic peptide substrate
90 <220> FEATURE:
91 <221> NAME/KEY: MOD_RES
92 <222> LOCATION: (3)..(3)
93 <223> OTHER INFORMATION: X is Aib or Pro
96 <400> SEQUENCE: 4
W--> 98 Lys Asp Xaa Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
99 1 5 10
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 13
103 <212> TYPE: PRT
C--> 104 <213> ORGANISM: Artificial
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Synthetic peptide substrate
109 <220> FEATURE:
110 <221> NAME/KEY: MOD_RES
111 <222> LOCATION: (3)..(3)
112 <223> OTHER INFORMATION: X is Aib or Pro
115 <400> SEQUENCE: 5
W--> 117 Lys Asp Xaa Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
118 1 5 10
120 <210> SEQ ID NO: 6
121 <211> LENGTH: 13
122 <212> TYPE: PRT
C--> 123 <213> ORGANISM: Artificial
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Synthetic peptide substrate
128 <220> FEATURE:
129 <221> NAME/KEY: MOD_RES
130 <222> LOCATION: (4)..(4)
131 <223> OTHER INFORMATION: X is Aib or Pro
134 <400> SEQUENCE: 6
W--> 136 Lys Asp Tyr Xaa Ala Asp Gly Ile Asp Pro Lys Gly Tyr
137 1 5 10
139 <210> SEQ ID NO: 7
140 <211> LENGTH: 14
141 <212> TYPE: PRT
C--> 142 <213> ORGANISM: Artificial

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144 <220> FEATURE:
145 <223> OTHER INFORMATION: Synthetic peptide substrate ✓
147 <220> FEATURE:
148 <221> NAME/KEY: MOD_RES
149 <222> LOCATION: (1)..(1)
150 <223> OTHER INFORMATION: BLOCKED WITH FMOC
153 <220> FEATURE:
154 <221> NAME/KEY: MOD_RES
155 <222> LOCATION: (3)..(3)
156 <223> OTHER INFORMATION: X is Aib or Pro
159 <400> SEQUENCE: 7
W--> 161 Lys Asp Xaa Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
162 1 5 10
164 <210> SEQ ID NO: 8
165 <211> LENGTH: 14
166 <212> TYPE: PRT
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169 <220> FEATURE:
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172 <220> FEATURE:
173 <221> NAME/KEY: MOD_RES
174 <222> LOCATION: (1)..(1)
175 <223> OTHER INFORMATION: BLOCKED with Fmoc
178 <220> FEATURE:
179 <221> NAME/KEY: MOD_RES
180 <222> LOCATION: (3)..(3)
181 <223> OTHER INFORMATION: X is Aib or Pro
184 <400> SEQUENCE: 8
W--> 186 Lys Asp Xaa Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
187 1 5 10
189 <210> SEQ ID NO: 9
190 <211> LENGTH: 13
191 <212> TYPE: PRT
C--> 192 <213> ORGANISM: Artificial
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Synthetic peptide substrate ✓
197 <220> FEATURE:
198 <221> NAME/KEY: MOD_RES
199 <222> LOCATION: (1)..(1)
200 <223> OTHER INFORMATION: BLOCKED with Fmoc
203 <220> FEATURE:
204 <221> NAME/KEY: MOD_RES
205 <222> LOCATION: (3)..(3)
206 <223> OTHER INFORMATION: X is Aib or Pro
209 <400> SEQUENCE: 9
W--> 211 Lys Asp Xaa Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
212 1 5 10
214 <210> SEQ ID NO: 10
215 <211> LENGTH: 12

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216 <212> TYPE: PRT
C--> 217 <213> ORGANISM: Artificial
219 <220> FEATURE:
220 <223> OTHER INFORMATION: Synthetic peptide substrate ✓
222 <220> FEATURE:
223 <221> NAME/KEY: MOD_RES
224 <222> LOCATION: (1)..(1)
225 <223> OTHER INFORMATION: BLOCKED with Fmoc
228 <400> SEQUENCE: 10
230 Lys Asp Ala Ile Pro Met Ser Ile Pro Lys Gly Tyr
231 1 5 10
233 <210> SEQ ID NO: 11
234 <211> LENGTH: 12
235 <212> TYPE: PRT
C--> 236 <213> ORGANISM: Artificial
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239 <223> OTHER INFORMATION: Synthetic peptide substrate ✓
241 <220> FEATURE:
242 <221> NAME/KEY: MOD_RES
243 <222> LOCATION: (1)..(1)
244 <223> OTHER INFORMATION: BLOCKED with Fmoc
247 <220> FEATURE:
248 <221> NAME/KEY: MOD_RES
249 <222> LOCATION: (6)..(6)
250 <223> OTHER INFORMATION: X is norleucine
253 <400> SEQUENCE: 11
W--> 255 Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
256 1 5 10
258 <210> SEQ ID NO: 12
259 <211> LENGTH: 16
260 <212> TYPE: PRT
C--> 261 <213> ORGANISM: Artificial
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Synthetic peptide substrate
266 <220> FEATURE:
267 <221> NAME/KEY: MOD_RES
268 <222> LOCATION: (1)..(1)
269 <223> OTHER INFORMATION: BLOCKED with Fmoc
272 <220> FEATURE:
273 <221> NAME/KEY: MOD_RES
274 <222> LOCATION: (3)..(3)
275 <223> OTHER INFORMATION: X is Aib or Pro
278 <400> SEQUENCE: 12
W--> 280 Lys Asp Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
281 1 5 10 15
283 <210> SEQ ID NO: 13
284 <211> LENGTH: 18
285 <212> TYPE: PRT
C--> 286 <213> ORGANISM: Artificial

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288 <220> FEATURE:
 289 <223> OTHER INFORMATION: Synthetic peptide substrate ✓
 291 <220> FEATURE:
 292 <221> NAME/KEY: MOD_RES
 293 <222> LOCATION: (1)..(1) ✓
 294 <223> OTHER INFORMATION: BLOCKED with Fmoc
 297 <220> FEATURE:
 298 <221> NAME/KEY: MOD_RES
 299 <222> LOCATION: (14)..(14)
 300 <223> OTHER INFORMATION: X is epsilon aminocaproic acid
 303 <220> FEATURE:
 304 <221> NAME/KEY: MOD_RES
 305 <222> LOCATION: (4)..(4)
 306 <223> OTHER INFORMATION: X is epsilon aminocaproic acid
 309 <220> FEATURE:
 310 <221> NAME/KEY: MOD_RES
 311 <222> LOCATION: (3)..(3)
 312 <223> OTHER INFORMATION: X is Aib or Pro
 315 <400> SEQUENCE: 13
 W--> 317 Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
 318 1 5 10 15
 320 Gly Tyr
 323 <210> SEQ ID NO: 14
 324 <211> LENGTH: 18
 325 <212> TYPE: PRT
 C--> 326 <213> ORGANISM: Artificial
 328 <220> FEATURE:
 329 <223> OTHER INFORMATION: Synthetic peptide substrate ✓
 331 <220> FEATURE:
 332 <221> NAME/KEY: MOD_RES
 333 <222> LOCATION: (1)..(1)
 334 <223> OTHER INFORMATION: MODIFIED WITH benzyloxycarbonyl
 337 <220> FEATURE:
 338 <221> NAME/KEY: MOD_RES
 339 <222> LOCATION: (14)..(14)
 340 <223> OTHER INFORMATION: X is epsilon aminoacproic acid
 343 <220> FEATURE:
 344 <221> NAME/KEY: MOD_RES
 345 <222> LOCATION: (3)..(3)
 346 <223> OTHER INFORMATION: X is Aib or Pro
 349 <220> FEATURE:
 350 <221> NAME/KEY: MOD_RES
 351 <222> LOCATION: (4)..(4)
 352 <223> OTHER INFORMATION: X is epsilon aminoacproic acid
 355 <400> SEQUENCE: 14
 W--> 357 Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
 358 1 5 10 15
 360 Gly Tyr
 363 <210> SEQ ID NO: 15

Use of n and / or Xaa has been detected in the
 Sequence Listing. Review the Sequence Listing
 to ensure a corresponding explanation is present
 in the <220> to <223> fields of each sequence
 using n or Xaa.

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Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\10152001\I394019A.raw

L:28 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:41 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:47 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:53 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:66 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:85 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:104 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:123 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:142 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:167 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:192 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:217 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:236 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:261 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:286 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:326 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:366 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:385 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:413 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:444 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:478 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:506 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:528 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:559 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:587 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23
L:606 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:615 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24
L:634 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:643 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25
L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25

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L:671 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26
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L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:733 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28
L:764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:773 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:29
L:798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:807 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:30
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:835 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:31
L:854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:863 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:32
L:882 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:891 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:33
L:910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:919 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:34
L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:947 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:35
L:966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:975 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:36
L:1006 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1015 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:37
L:1046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1055 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:38
L:1080 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1089 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:39
L:1120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1129 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:40
L:1160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:1169 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:41
L:1200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1209 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:42
L:1222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1228 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:43
L:1241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43
L:1247 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:44
L:1260 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:1266 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:45
L:1279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:1285 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:46
L:1298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:1304 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:47
L:1317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:1323 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48
L:1348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:1357 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:49
L:1382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:1391 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:50

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L:1416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:1450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:1490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:1524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53
L:3905 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:128
L:3911 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:128
L:3917 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:128
L:4894 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:163
L:4913 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:164
L:5965 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:196
L:6003 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:198
L:6022 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:199
L:6041 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:200
L:6060 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:201
L:6079 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:202
L:6098 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:203
L:6148 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:205
L:6167 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:206
L:6230 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:209
L:6249 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:210
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L:6287 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:212
L:6306 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:213
L:6325 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:214
L:6344 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:215
L:6363 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:216
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L:6401 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:218
L:6451 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:220
L:6470 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:221
L:6489 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:222